AMENDMENTS TO THE CLAIMS

Please replace the previous listing of claims with the listing of claims below.

Listing of claims

1. (currently amended) A power on/off circuit apparatus, comprising:

a power on/off circuit for controlling an on/off supply of power ~~supply~~ to electronic ~~equipments~~components from an external power source;

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a microcomputer connected to the power on/off circuit for controlling said power on/off circuit based on an operation input of a power switch;

a reset circuit for giving a reset signal to a reset terminal of the microcomputer when a power is supplied to said microcomputer; and

a non-volatile memory for storing ~~a~~ power on/off information just before said power switch is operated, the power on/off circuit connected to the non-volatile memory for controlling the on/off supply of power to the non-volatile memory, and said power switch being connected to said reset terminal.

2. (currently amended) The power on/off circuit apparatus according to claim 1, wherein when said power switch is operated, said microcomputer reads ~~a~~ the power on/off information of said non-volatile memory ~~so as~~ to determine a power on/off state just before the power switch is operated, and writes a power-on information to said non-volatile memory while making a power-on operation if the microcomputer is in a power-off state, ~~and further~~or, writes a power-off information to said non-volatile memory while making a power-off operation if the microcomputer is in a power-on state.

3. (currently amended) The power on/off circuit apparatus according to claim 1, ~~wherein~~ further comprising: ~~includes~~

a power circuit connected to an AC power source,

wherein said power on/off circuit uses an output of said power circuit as a power source, and

said microcomputer uses an output of said power circuit as a power source, and senses a key scan of a key matrix on which various input keys except said power switch are arranged, regardless of the on/off of power supply to the electronic components~~equipments~~ by said power on/off circuit.

4. (currently amended) The power on/off circuit apparatus according to claim 1, wherein when said power switch is operated, a reset terminal of said microcomputer is connected to a GND, and said microcomputer is reset ~~so as to cancel~~to resolve a hang-up of the microcomputer.

5. (currently amended) The power on/off circuit apparatus according to claim 3, wherein when the electronic ~~equipments~~components are operating in a power saving mode, said power on/of circuit ~~cancels a power supply~~prevents supplying power to the electronic ~~equipments~~components, and said microcomputer senses a key scan of the key matrix other than said power switch.

6. (currently amended) An electronic ~~equipment~~ device including:

a power on/off circuit for controlling an on/off supply of power to electronic components of the device from an external power source;

a microcomputer connected to the power on/off circuit for controlling said power on/off circuit based on an operation input of a power switch;

a reset circuit for giving a reset signal to a reset terminal of the microcomputer when a power is supplied to said microcomputer;

a non-volatile memory for storing a power on/off information just before said power switch is operated, the power on/off circuit connected to the non-volatile memory for controlling the on/off supply of power to the non-volatile memory, and said power switch being connected to said reset terminal, and

a power circuit connected to an AC power source and connected to the on/off circuit,

wherein said power on/off circuit uses an output of said power circuit as a power source, and said microcomputer uses an output of said power circuit as a power source, and senses a key scan of a key matrix on which various input keys except said power switch are arranged, regardless of the on/off of power supply to the electronic components by said power on/off circuit.

~~a power on/off circuit for controlling an on/off of power supply to electronic components from an external power source;~~

~~a microcomputer for controlling said power on/off circuit;~~

~~said microcomputer controls sadi power of/off circuit based on an operation input of a power switch;~~

~~a reset circuit for giving a reset signal to a reset terminal of the microcomputer when a power is supplied to said microcomputer; and~~

~~a non-volatile memory for storing a power on/off information just before said power switch is operated, said power switch being connected to said reset terminal.~~

7. (new) The power on/off circuit apparatus according to claim1, further comprising:

a servo circuit connected to the power on/off circuit; and

an AV decoder circuit connected to the power on/off circuit.

8. (new) A power on/off circuit apparatus, comprising:

a power on/off circuit for controlling an on/off supply of digital power to electronic components from an external power source;

a microcomputer connected to the power on/off circuit for controlling said power on/off circuit;

a power switch connected to a reset terminal of the microcomputer, said microcomputer configured to control said power on/off circuit based on an operation input of the power switch;

a reset circuit for giving a reset signal to the reset terminal of the microcomputer when a power is supplied to said microcomputer; and

a non-volatile memory for storing a power on/off information just before said power switch is operated, the power on/off circuit connected to the non-volatile memory for controlling the on/off supply of digital power to the non-volatile memory,

wherein the electronic components include:

a servo circuit connected to the power on/off circuit; and

an AV decoder circuit connected to the power on/off circuit.

9. (new) The power on/off circuit apparatus according to claim 8, further comprising:

a power circuit connected to an AC power source; and

another power on/off circuit connected to the power circuit for controlling the on/off supply of digital power of a different level to other electronic components not connected to the first-mentioned power on/off circuit, and the microcomputer connected to the second-mentioned power on/off circuit for controlling the second-mentioned power on/off circuit.

10. (new) The power on/off circuit apparatus according to claim 3, further comprising:

another power on/off circuit connected to the power circuit for controlling the on/off supply of power of a different level to other electronic components not connected to the first-mentioned power on/off circuit, and the second-mentioned power on/off circuit being connected to the microcomputer for being controlled by the microcomputer.

11. (new) The power on/off circuit device according to claim 6, further comprising:

a power circuit connected to an AC power source; and

another power on/off circuit connected to the power circuit for controlling the on/off supply of power of a different level to other electronic components not connected to the first-mentioned power on/off circuit, and said microcomputer connected to the second-mentioned power on/off circuit for controlling the second-mentioned power on/off circuit.